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TUE: 51°F | 34°F





Volume 130, Number 13 tech.mit.edu Tuesday, March 16, 2010

#### Four new MacVicar fellows this year

#### Hosoi, Ram, Rajagopal, and Richards win teaching prize

**By Margaret Cunniff** 

Associate Professor Anette E. "Peko" Hosoi of the Department of Mechanical Engineering, Professor Norvin W. Richards PhD '97 of the Department of Linguistics, Professor Rajeev J. Ram of the Department of Electrical Engineering and Computer Science, and Professor Krishna Rajagopal of the Department of Physics were named MacVicar fellows last Tuesday. The fellowship seeks to recognize excellence in undergraduate

The MacVicar fellowship is a yearly award given to recognize outstanding contributions to undergraduate education and provide an opportunity for continued improvement. The fellowship was named in honor of the late Margaret L. A. MacVicar '64, a former professor of physical science and dean for undergraduate education who founded MIT's UROP pro-

Tenured faculty receive a grant of \$100,000 paid in \$10,000 installments over 10 years for support of education and research expenses. Junior faculty receive the award for three years initially. The grant is extended to the full ten years if tenure is received.

All four of the fellows spoke highly of the experience of teaching at MIT and working with MIT undergraduates. "[MIT students are] premotivated. You don't want to damp to enthusiasm they come in with," said Hosoi.

The average MIT student is amazing, and then there's this tail of the distribution that blows you away," Rajagopal said.

Rajagopal told of a first semester freshman who took Quantum Mechanics II, 8.05. The student was interested in taking the class, and he was allowed to as long as he was aware it was an upper-level class and would likely be difficult. The student went on to score a 179

Ray Stata, Page 11



Professor Krishna Rajagopal, Professor Norvin W. Richards PhD '97, Professor Rajeev J. Ram, and Associate Professor Anette E. "Peko" Hosoi, were named MacVicar Fellows on Tuesday.

#### Stata chosen as the 2010 commencement speaker



Raymond S. Stata, prominent benefactor of the Ray and Maria Stata Center, will deliver the 2010 Commencement Address to graduates on June 4. Stata is seen here at the Analog Devices corporate headquarters in Norwood, MA where he is Chairman of the Board of Directors.

#### By Pearle Lipinski and Rob McQueen

Raymond S. Stata '57, founder of Massachusetts-based Analog Devices, Inc. and namesake of MIT's Ray and Maria Stata Center, will this year's commencement ad-

Stata (pronounced "STAY-tah"), recieved both his bachelor's and master's degrees from MIT and donated \$25 million in 1997 to fund the construction of the Stata Center, which opened in 2004.

Recent commencement speakers have included Massachusetts Governor Deval Patrick last year, Nobel Peace Prize winner Muhammad Yunus in 2008, and former MIT president Charles M. Vest in

"Ray Stata is a successful entrepreneur, engineer, and a fellow nerd. We are delighted to have this loyal friend of MIT deliver our commencement speech," said Alex Ham-

MacVicar Fellows, Page 13

#### Subra Suresh might lead NSF

#### Science reported rumors about dean on Friday

By John A. Hawkinson

Rumors are swirling that MIT's Dean of Engineering, Subra Suresh ScD '81, may be the new director of the National Science Foundation.

Science reported early afternoon Friday that Suresh "has been tapped by the White House" for the position, replacing Arden Bement, Jr., who is stepping down from his six year term. But that same day, Nature followed up with a counterpoint, "New NSF director selected ... or not ... yet," questioning the meaning of "tapped." The White House Office of Science and Tech. nology Policy claimed no decision http://sureshgroup.mit.edu/.

had been made, Nature said.

Suresh did not return inquiries on Monday afternoon, but The Tech heard back from Chad J. Galts, a spokesman for the School of Engi-

Galts said there was "nothing to say" until a official statement was issued by the NSF or the White

Science and Galts both mentioned Suresh's background as a working scientist while carrying the heavy load of Dean of Engineering. Suresh maintains an active research group in nanobiomechanics, and his work covers human diseases, including malaria. See

INSIDE

Chart of

historical

admit rates,



Suresh has been Dean since 2007, when he replaced Institute Professor Thomas L. Magnanti, who served since 1999. Suresh previously served as department head for Course III. Materials Science and Engineering, from 2000 to 2006.

#### **IN SHORT**

**Institute Professor Peter Diamond may** be nominated to the Federal Reserve Board of Governors, BusinessWeek reported last week. Diamond's assistant said he is not speaking to the press.

Online UA voting begins today and ends Thursday at 11:59 p.m. On Friday, there will be paper balloting in Lobby 10. The winners will be announced on Saturday at 12:01 a.m.

#### 9.7 percent admission rate for Class of 2014

As MIT students celebrated  $\pi$  day this Sunday, 10,948 high school seniors waited nervously by their computers for the Class of 2014 admissions decisions.

Only 1,021, or 9.3 percent, of those students received offers of admissions. Including the early action admissions round on December 16, the overall acceptance rate for this year's admissions cycle is 9.7 percent. A total of 16,632 students applied, but only 1,611 secured acceptances.

The admission rate fell a full percentage point from last year's 10.7 percent, continuing its steady decline from a peak of 16.4 percent in 2003. The number of ap-

plications for early action admissions and regular admissions increased, forcing the admissions rate to fall because the admissions committee expects the class size to remain steady.

Early admissions applications increased 13 percent, from 5,018 to 5,684 applications. Total applications increased 6.2 percent, from 15,661 to 16,632 applications.

The regular admitted students will join the 590 students admitted early action. Students from the two groups represent fifty states and fifty nine countries.

-Meghan Nelson

#### **ENDORSING MODI** AND WYMAN

Vrajesh Modi and Sammi Wyman are the best candidates to lead the UA through the coming year. OPN, p. 4

#### IT'S COMPARATIVE ADVANTAGE

Comparative advantage is a simple idea that so many get wrong. OPN, p. 5

#### **LESSONS FROM A DEAR FRIEND**

Remembering Ryan Davis, who was passionate and loved life. OPN, p. 5



#### **BROUHAHA RHYTHM**

I played Rock Band with one of my favorite bands at someone's house. It wasn't weird at all. CL, p. 8

#### **VARIOUS STATES OF UNDRESS**

Vanilla is the most popular flavor for a reason. It's simple, but you can always spice it up. **CL, p. 8** 

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#### Junk bond avalanche looms for credit markets in 2012

When the Mayans envisioned the world coming to an end in 2012 at least in the Hollywood telling — they didn't count junk bonds among the disasters that would lead to worldwide disaster.

Maybe they should have, because 2012 also is the beginning of a three-year period in which more than \$700 billion in risky, high-yield corporate debt begins to come due, an extraordinary surge that some analysts fear could create a glut in the debt markets.

With huge bills about to hit corporations and the federal government around the same time, the worry is that some companies will have trouble getting new loans, spurring defaults and a wave of bankruptcies.

The U.S. government alone will need to borrow nearly \$2 trillion in 2012, to bridge the projected budget deficit for that year and to refinance existing debt.

Indeed, worries about the growth of national, or sovereign, debt prompted Moody's Investors Service to warn on Monday that the United States and other Western nations were moving "substantially" closer to losing their top-notch Aaa credit ratings.

—Nelson D. Schwartz, The New York Times

#### Sony and Jackson estate sign sweeping \$250 million contract

Nine months after Michael Jackson's death, his estate has signed one of the biggest recording contracts in history, giving Sony, Jackson's longtime label, the rights to sell his back catalog and draw on a large vault of unheard recordings.

The deal, for about 10 recordings through 2017, will guarantee the Jackson estate up to \$250 million in advances and other payments and offer an especially high royalty rate for sales both inside and outside the United States, according to people with knowledge of the contract who spoke anonymously because they were not authorized to speak about it publicly.

It also allows Sony and the estate to collaborate on a wide range of lucrative licensing arrangements, like the use of Jackson music for films, television and stage shows and lines of memorabilia that will be limited only by the imagination of the estate and the demand of a hungry worldwide market.

The first recording covered by the new contract is the "This Is It" soundtrack, released last year, and Sony plans a new album of unreleased recordings for November.

-Ben Sisario, The New York Times.

#### In Ohio, Obama appeals for health care votes one by one

STRONGSVILLE, Ohio —President Barack Obama, declaring that "every argument has been made" on his health care overhaul, sought to seal the deal with Congress and the American people Monday by focusing on a single patient: a self-employed cleaning woman who dropped her costly insurance plan and just discovered she has leukemia.

Obama traveled here, to a recreation center in a region that is home to several swing Democrats, to begin a week of closing arguments that will culminate in a series of make-or-break House votes. With the House speaker, Nancy Pelosi, struggling to corral her caucus behind his top legislative priority, Obama is using the power of his presidency to court lawmakers one by one.

In Washington, the House Budget Committee opened the formal legislative process by which Democrats hope to complete the health care legislation, perhaps even this week. By a vote of 21-16, the committee advanced a budget reconciliation bill, essentially a legislative shell that will contain the crucial revisions to the health care measure adopted by the Senate on Dec. 24.

—Sheryl Gay Stolberg, The New York Times

# C-Span puts full archives, 23 years of history, on the web

By Brian Stelter

WASHINGTON — Researchers, political satirists and partisan mudslingers, take note: C-Span has uploaded virtually every minute of its video archives to the Internet.

The archives, at C-SpanVideo. org, cover 23 years of history and five presidential administrations and are sure to provide new fodder for pundits and politicians alike. The network will formally announce the completion of the C-Span Video Library on Wednesday.

Having free online access to the more than 160,000 hours of C-Span footage is "like being able to Google political history using the 'I Feel Lucky' button every time," said Rachel Maddow, the liberal MSNBC host.

Ed Morrissey, a senior correspondent for the conservative blog Hot Air (*hotair.com*), said, "The geek in me wants to find an excuse to start digging."

No other cable network is likely to give away its precious archives on the Internet. (Even "Book TV" is available.) But C-Span is one of a kind, a creation of the cable industry that records every congressional session, every White House press briefing and other acts of official Washington.

The online archives reinforce what some would call the Web's single best quality: its ability to recall seemingly every statement and smear. And it is even more powerful when the viewer can rewind the video.

The C-Span founder, Brian Lamb, said in an interview here last week that the archives were an extension of the network's public service commitment. "That's where the history will be," Lamb said.

C-Span has been uploading its history for several years, working its way to 1987, when its archives were established at Purdue University, Lamb's alma mater.

The archive staff now operates from an office park in West Lafayette, Ind., where two machines that can turn 16 hours of tapes into digital files each hour have been working around the clock to move C-Span's programs online. They are

now finishing the 1987 catalog.

"This is the archive's coming of age, in a way, because it's now so accessible," said Robert Browning, director of the archives.

Historically, the \$1 million-ayear operation has paid for itself partly by selling videotapes and DVDs to journalists, campaign strategists and others.

Browning acknowledges that video sales have waned as more people have viewed clips online. "On the other hand, there are a lot of things people now watch that they never would have bought," he said.

The archives' fans include Maddow, who called it gold. "It's raw footage of political actors in their native habitat, without media personalities mediating viewers' access," she wrote in an e-mail message.

Similarly, Morrissey said the archives made "for a really intriguing reference set." He pointed out, however, that the volume of videos "is so vast that finding valuable references may be a bit like looking for a needle in a haystack."

### Priest close to Pope is suspended in child molestation case

By Nicholas Kulish

THE NEW YORK TIMES

MUNICH — The priest at the center of a German sex-abuse scandal that embroiled Pope Benedict XVI continued working with children for more than 30 years, even though the pope was personally involved in his case and a German court convicted the priest of molesting boys.

The priest, Peter Hullermann, who had previously been identified only by the first initial of his last name, was suspended from his duties only on Monday. That was three days after the church acknowledged that the pope, then Archbishop Joseph Ratzinger, had responded to early accusations of molestation by allowing the priest to move to Munich for therapy in 1980.

Hundreds of victims have come forward in recent months in Germany with accounts of sexual and other physical abuse from decades past. But no case has captured the attention of the nation like that of Hullermann, not only because of the involvement of the future pope, but also because of the impunity that allowed a child molester to continue to work with altar boys and girls for decades after his conviction.

Benedict not only served as the archbishop of the diocese where the priest worked, but also later as the cardinal in charge of reviewing sexual abuse cases for the Vatican. Yet until the archdiocese of Munich and Freising announced that Hullermann had been suspended on Monday, he continued to serve in a series of Bavarian parishes.

In 1980, the future pope reviewed the case of Hullermann, who was accused of sexually abusing boys in the Diocese of Essen, including forcing an 11-year-old boy to perform oral sex. The future pope

transferred him to Munich. On Friday, a deputy took responsibility for allowing the priest to return to full pastoral duties shortly afterward. Six years later, Hullermann was convicted of sexually abusing children in the Bavarian town of Grafing. Hullermann's identity was revealed Sunday, when a man whose marriage he was scheduled to perform in the spa town of Bad Toelz stood up in the pews and began shouting as the head of the congregation was speaking in vague terms about the scandal.

But even after the revelations of last week, parishioners there, where Hullermann had been working, described him glowingly calling him friendly, down to earth and popular with churchgoers, especially children and teenagers.

Hullermann's story is one of a beloved priest with a damaging secret church officials helped him hide.

#### **WEATHER**

#### Sunshine returns!

By Alison A. Wing

A strong nor'easter brought

heavy rains and strong winds to the Boston area for the past three days.

A new record for March 14 daily maximum rainfall was

daily maximum rainfall was set in Boston on Sunday, with a total of 3.40" of rain recorded at Logan Airport. This is just short of the record for highest daily rainfall in March, which is 3.49".

As of 8 a.m. yesterday, a storm total of 6.23" of rain was recorded in Cambridge, and continual rain throughout the

day yesterday added to that total. The high winds associated with this system (sustained winds in the 30–40 mph range, with gusts to 50 mph were observed) caused some downed trees and flooding, along with some power outages.

After the system finally drifts out to sea early this morning, we will see a return to more pleasant weather. A high pressure system will move in by Friday, bringing warmer and drier weather. For the next couple of days, there will be sunny skies and above normal temperatures in the mid to upper 50°Fs.

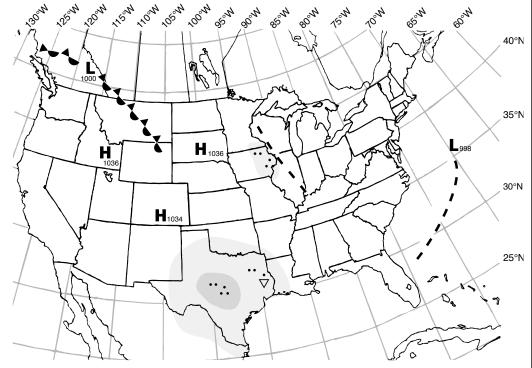
#### **Extended Forecast**

**Today**: Cloudy early then becoming sunny. Winds from the northeast at 10-15 mph. High 51°F (11°C).

Tonight: Clear skies. Winds from the north at 3-5 mph. Low 34°F (1°C).

Tomorrow: Sunny. Winds from the northwest at 5-10 mph

shifting to from the southwest. High 58°F (37°C). **Thursday**: Mostly sunny. High 58°F (14°C). Low 37°F (3°C).



Situation for Noon Eastern Daylight Time, Tuesday, March 16, 2010

Weather Systems	Weather Fronts	Precipita	ation S	ymbols	Othe	er Symbols
			Snow	Rain		Fog
High Pressure	Trough	Showers	*	$\dot{\nabla}$	<del> </del>	Thunderstorm
Low Pressure	Warm Front	Light	*	•		Haze
-	▲▲▲▲ Cold Front	Moderate	**	••	Comr	oiled by MIT
§ Hurricane	Stationary Front	Heavy	**	:.	Meteo	orology Staff

Tuesday, March 16, 2010

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# U.S. reins in special forces in Afghanistan after civilian deaths

By Richard A. Oppel Jr. and Rod Nordland

THE NEW YORK TIMES

KABUL — Gen. Stanley Mc-Chrystal, the top U.S. commander in Afghanistan, has brought most U.S. Special Operations forces under his direct control for the first time, out of concern over continued civilian casualties and disorganization among units in the field.

"What happens is, sometimes at cross-purposes, you got one hand doing one thing and one hand doing the other, both trying to do the right thing but working without a good outcome," McChrystal said in an interview.

Critics, including Afghan officials,

human rights workers and some field commanders of conventional U.S. forces, say that Special Operations forces have been responsible for a large number of the civilian casualties in Afghanistan and operate by their own rules.

Maj. Gen. Zahir Azimi, the chief spokesman for the Afghan Defense Ministry, said McChrystal had told Afghan officials he was taking the action because of concern that some American units were not following his orders to make limiting civilian casualties a paramount objective.

"These special forces were not accountable to anyone in the country, but General McChrystal and we carried the burden of the guilt for the mistakes they committed," he said.

"Whenever there was some problem with the special forces we didn't know who to go to, it was muddled and unclear who was in charge."

McChrystal has made reducing civilian casualties a cornerstone of his new counterinsurgency strategy, and his campaign has had some success: last year, civilian deaths attributed to the U.S. military were cut by 28 percent, although there were 596 civilian deaths attributed to coalition forces, according to U.N. figures. Afghan and U.N. officials blame Special Operations troops for most of those deaths.

"In most of the cases of civilian casualties, special forces are involved," said Mohammed Iqbal Safi, of the Afghan Parliament.

#### Israel feeling rising anger from the U.S. over housing demands

WASHINGTON — An ill-timed municipal housing announcement in Jerusalem has mutated into one of the most serious conflicts between the United States and Israel in two decades, leaving a politically embarrassed Israeli government scrambling to respond to a tough list of demands by the Obama administration.

The Obama administration has put Prime Minister Benjamin Netanyahu in a difficult political spot at home by insisting that the Israeli government halt a plan to build housing units in East Jerusalem. The administration also wants Netanyahu to commit to substantive negotiations with the Palestinians, after more than a year in which the peace process has been moribund.

With the administration's special envoy, George J. Mitchell, suddenly delaying his planned trip to Israel, the administration was expecting a call from Netanyahu, after a tense exchange last week with Secretary of State Hillary Rodham Clinton.

On Monday, however, Netanyahu sounded a defiant note, telling the Israeli parliament that construction of Jewish housing in Jerusalem was not a matter for negotiation.

He is struggling to balance an increasingly unhappy ally in Washington with the restive right wing of his coalition government

—Mark Landler and Ethan Bronner, The New York Times

## Flint, Mich. is hard hit by cuts in Medicaid reimbursements

By Kevin Sack
THE NEW YORK TIMES

FLINT, MICH. — Carol Y. Vliet's cancer returned with a fury last summer, the tumors metastasizing to her brain, liver, kidneys and throat

As she began a punishing regimen of chemotherapy and radiation, Vliet found a measure of comfort in her monthly appointments with her primary care physician, Dr. Saed J. Sahouri, who had been monitoring her health for nearly two years. She was devastated, therefore, when Sahouri informed her a few months later that he could no longer see her

because, like a growing number of doctors, he had stopped taking patients with Medicaid.

Sahouri said that his reimbursements from Medicaid were so low — often no more than \$25 per office visit — that he was losing money every time a patient walked in his exam room. The final insult, he said, came when Michigan cut those payments by 8 percent last year to help close a gaping budget shortfall.

"My office manager was telling me to do this for a long time, and I resisted," Sahouri said. "But after a while you realize that we're really losing money on seeing those patients, not even breaking even. We were starting to lose more and more money, month after month."

"It has not taken long for communities like Flint to feel the downstream effects of a nationwide torrent of state cuts to Medicaid. the government insurance program for the poor and disabled. With states squeezing payments to providers even as the economy fuels explosive growth in enrollment, patients are finding it increasingly difficult to find doctors and dentists who will accept their coverage. Inevitably, many defer care or wind up in hospital emergency rooms, which are required to take anyone in an urgent condition.

#### Boston Scientific voluntarily halts defibrillator sales

Boston Scientific vowed when it acquired Guidant in 2006 for \$26 billion that it would rebuild the troubled producer of implantable heart defibrillators into a new model of industry safety and public transparency.

But on Monday, Boston Scientific halted defibrillator sales, saying it had failed to properly notify the Food and Drug Administration about two recent manufacturing changes to the devices. The company also voluntarily withdrew all of its defibrillators from hospital shelves.

Recently, a leading heart device researcher said that the company's devices might pose a potential risk to patients because of the way a component was constructed. The company had rebutted that charge.

It was not clear on Monday whether the company's failure to notify the FDA involved significant issues or simply paperwork violations, because Boston Scientific did not describe them. A company spokesman also declined to elaborate, other than to say that it did not involve safety-related issues.

Ray Elliott, the company's president and chief executive, said: "We are acting voluntarily and expeditiously to resolve this situation, and we have seen no evidence of risk to patients."

—Barry Meier, The New York Times

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#### **EDITORIAL**

# Modi and Wyman for UA leadership

As MIT faces more and more budget cuts, the Undergraduate Association will need strong and effective leadership to make student voices heard in the decision-making process. That leadership will face students that are often apathetic towards the UA as it rallies support on critical upcoming issues concerning dining, add/ drop dates, the continuation of the Athena program, and the implications of future changes in enrollment. In contrast to past years, the challenges faced by the UA and its constituents will be broad and far reaching, serving to unite the student body more than divide it. All of these requirements dictate that next year's UA president and vice president have experience, enthusiasm, and a firm grasp of the realities of the job. There is only one ticket that clearly exemplifies these traits. The Tech endorses Vrajesh Modi '11 and Samantha Wyman '11 for UA president and vice president.

As the only candidate pair to register before the election cutoff date, Modi and Wyman demonstrated from the start that they took their candidacies seriously. But *The Tech* commends the opposing tickets for their service to the MIT community — without them, this race would be uncompetitive and a failure of the democratic process.

Come next semester, UA President Michael Bennie will be leaving the UA in a moderately strong position. Pressing changes are not needed simply to ensure the Association's viability. All three tickets were clear that their plans for the future would not represent drastic departures from the status quo.

What next year's president and vice president need is a clear grasp of how the UA and the MIT administration function. Modi and Wyman bring significant experience to the UA's top executive positions. Both have served as dormitory senators, and Modi has proven he can bring ideas to implementation. The pair are deeply knowledgeable, consistently able to cite the

specific committees and administrators involved in any of a multitude of issues. And, at a time when dining continues to be among the biggest issues for undergraduates, Modi and Wyman have followed or been involved with the policy making process for the last few years — from the Blue Ribbon Dining Committee to the newly formed House Dining Advisory Group.

The pair are deeply knowledgeable, consistently able to cite the specific committees and administrators involved in any of a multitude of issues.

Beyond their considerable political knowledge, Modi and Wyman have an effective plan to divide the responsibilities of working with administrators and internal UA management. They also demonstrate an understanding of the complexities and subtleties of undergraduate life at the Institute. We applaud their desire to hold Executive Committee meetings in dorms and to meet individually with each UA committee chair on a weekly basis - two campaign promises that we are looking for them to keep. Their main goals of online Add/Drop forms and improving SafeRide seem worthwhile and feasible. We also support their efforts to reform freshman advising, though such reforms have proved challenging in the past.

The write-in ticket of Ariel Torres '11 for president and Jarrett Remsberg '11 for vice president presents something of a paradox. They are both outsiders to student government and unfamiliar with its workings, but they don't have the fresh perspective of outsiders. Their platform aims, for the

most part, to maintain the status quo. Why should students not instead turn the UA reins over to Modi and Wyman, who have already helped guide the organization?

Torres and Remsberg's platform has strong points, though. In particular, there is the excellent idea of a chief of staff position, improving UA workflow by allowing both the president and vice president to focus more on long term projects and objectives. The chief of staff position should be considered seriously by future UA leaders as a way to better manage the numerous committees and groups needing attention.

The ticket of Ian Tracy '11 and Pall Kornmayer '11 seems unprepared to assume the full responsibility of the top UA positions. Though Tracy has past experience with the UA, the pair lacks a broad vision for the future of the Undergraduate Association and seems uninformed about key aspects of the Senate and of campus culture. Some of their plans, such as creating a liaison committee between the dormitory governments and the UA, are ill-conceived and redundant.

Voters should take note of Tracy's recent removal from the Senate for poor attendance. Tracy said he ran for senator despite his other commitments because Simmons was facing a vacant Senate seat. He did Simmons a service. But the more responsible choice would have been to encourage an enthusiastic freshman or member of the Simmons community with the time to fully devote themselves to Senate.

In the coming year, the Undergraduate Association will have a unique chance to make lasting impressions on MIT and it will need to prioritize its goals. A strong incoming administration will build on what has been done by Bennie and Delano's UA, and succeed in addressing student concerns and strengthening administrative ties. Vrajesh Modi and Samantha Wyman are the pair most suited to this task.

Natasha Plotkin has recused herself from this editorial.

#### **CORRECTIONS**

A sports short about women's tennis last Friday incorrectly stated that Jenny C. Dohlman '11 played first in the singles matches. In fact, it was her teammate Hillary E. Jenny '12. Dohlman plays doubles tennis.

# Who do YOU support for the UA elections?

Tell us at letters@tech.mit.edu

#### OPINION POLICY

**Editorials** are the official opinion of *The Tech*. They are written by the editorial board, which consists of Chairman Steve Howland, Editor in Chief Jeff Guo, Managing Editor David M. Templeton, Executive Editor Natasha Plotkin, Opinion Editors Joseph Maurer and Ethan Solomon, Contributing Editor Michael McGraw-Herdeg, and Advisory Board member Andrew T. Lukmann.

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TUESDAY, MARCH 16, 2010 THE TECH 5

#### Debunking trade myths

#### The U.S. does not economically "compete" with other nations

By Keith Yost

On February 24th, Barack Obama appeared before the Business Roundtable, an association of corporate CEOs, to give an address on what has now become a major talking point of his administration: competitiveness. In the president's view, the main problem facing the U.S. is that other nations are catching up, they are making investments in education and infrastructure that have been unmatched by the United States, and as a consequence. American economic wellbeing has been eroded. The solution, he explained, is to renew America's competitive edge with fresh investment, health care reform, stricter financial oversight, and closer integration between business and government to promote American exports abroad. In his own words, "Winning the competition means we need to export more of our goods and services to other nations."

We've seen this type of rhetoric before, most notably when it was called by its proper name, "mercantilism," but also in recent decades whenever a trade-imbalanced America hunts for scapegoats upon which to blame some new economic malaise. It is a popular argument; for many it seems obvious that, in the words of President Clinton, the United States is "like a big corporation competing in the global marketplace," and that the problems our nation faces are essentially identical to the problems of Ford competing with Toyota.

At the core of this belief is the notion that there is a fixed amount of jobs and economic activity, and that unless we are more productive than our rivals, we will not capture our share of this activity and our economic well-being will decline. International trade, this idea posits, is very nearly (if not entirely) a zero-sum game, in which the winners are rewarded with economic growth and vitality, and the losers are punished with chronic unemployment and stagnation.

As persistently popular as this idea is, it is entirely false. It has virtually no basis in economic theory, zero supporting empirical evidence, and is so logically flawed that it has not been seriously considered in academic circles for nearly two centuries. Let us say it loud and clear right now: The national living standard of the United States is almost entirely independent of productivity growth in other nations, we do not economically compete with the world in any meaningful way, and none of our important economic problems can be attributed to a failure to compete.

The benefits of free trade are described by a very simple idea that laymen seem determined to avoid learning. It is called "comparative advantage." Without trade (a condition we call "autarky"), a nation faces a trade-off in determining where its economic resources will go. If it adds a worker to, say, the computer industry, that means it must take that worker from somewhere else,

say, the banana industry. Each decision of where to allocate scarce labor, capital, and other productive resources is sacrificing the output of one good or service

Simplified, it is as if our economy were a machine that converted bananas into computers and vice-versa. The benefit from free trade is similar to one man with a two-bananas-for-one-computer machine coming across another man with a three-bananas-for-one-computer machine - if the first man produces computers and trades them to his compatriot for bananas at some ratio between 2-1 and 3-1, both men will be better off.

It is impossible for there to be losers from trade - if the first man asked for four bananas in exchange for one of his computers (a losing proposition for the man who could just stuff three bananas into his own machine), the second man would simply refuse — it would be as if you had tried to sell someone a four dollar banana when he is standing in a grocery aisle that offers the same banana for three dollars.

#### The benefits of free trade are described by a very simple idea that laymen seem determined to avoid learning.

If you take any two multi-good economies, you will find that one of them is relatively better than the other at producing a subset of goods. Even if one of the two nations can produce every single good more efficiently than the other (what economists term absolute advantage), there will be room for mutually beneficial trade as one nation produces only the goods in which its productivity advantage is the greatest and the other produces the goods in which its productivity disadvantage is the least.

There is room for winners and smaller winners in trade. Remembering the example of the banana-to-computer machines, the two trading men could set the terms of trade anywhere between 2-1 and 3-1. If the first man were a truly magnificent negotiator, it would be possible for him to convince his friend to trade at three bananas for one computer and thereby capture all of the benefit of trade

In practice, terms of trade are not set through formal negotiation, but through the free market. At any given moment, the terms of trade are set proximately by the combination of exchange rates and relative good prices, and are set ultimately by whatever trade-off is occurring at the margin. The terms of trade for bananas and computers may be set by the relative productivity of a third good, dungarees, or the exchanges made between other trading partners. There is virtually no room for market power or bargaining to change the terms of trade - subsidies,

tariffs, and currency manipulation will only prevent mutually beneficial trades from occurring and/or encourage trades that are not mutually beneficial (with the manipulating country on the losing

This said, it is possible for rising productivity in another nation to harm the United States. Thinking back to the example of the two men with bananato-computer machines, what if the second man became better at producing computers such that his economic 'machine' changed into a 2.5-bananas-for-1-computer machine? Whereas before there was one banana of benefit to be split among the two men for each computer trade they made, now there would be only half a banana. As the pain is doled out, the second man will find that the gains from his added productivity outweigh the loss of this trade benefit, but the first man will be worse off. Thus, economists cannot unequivocally state that improvements in Chinese productivity will not harm the U.S.

At a glance, this may seem to confirm the competitiveness hypothesis that productivity gains in other nations will harm the United States, but let's explore the problem a little bit more. Firstly, even with the deteriorating terms of trade, the first man is still better off than he was under autarky - he has not really been harmed by trade, it is merely that his potential gains from trade have been reduced as his partner's economy becomes more similar to his own. Secondly, what if the other man had improved his productivity in bananas instead of computers? If the other man's machine had changed into a 4-1 device, the gains from trade would have increased, not decreased. Unspecified productivity gains by a trade partner are just as likely to improve the United States' well-being as they are to reduce it, and typically they do not change it much

If we look at the data from the past fifty years, we find that by and large, changes in our terms of trade have not significantly impacted our well-being. As we would expect, our terms of trade have fluctuated randomly and mildly. The real wages of Americans are determined almost entirely by their own productivity gains and losses — when a typical worker can produce one computer per hour, he enjoys a standard of living and level of consumption equal to the value of forty computers per week, irregardless of how well or poorly Japan produces its own computers. When his productivity falls, his standard of living falls proportionately, and when it rises, he captures only the extra benefit that he himself has created.

It is dull to say that our economic well-being is determined by our own actions and is largely independent of how other economies perform, but it is the truth. Opposite what "competitiveness" advocates believe, free trade has a small and almost unambiguously positive impact on every economy that participates.

This is the first in a three part series on international trade.



"We plan to build new settlements complete with conference facilities where we can hold peace talks."

LETTER

#### About a boy

By Cinjon Resnick

Please, sit down. Breathe. I want to tell you a

It's about a boy. He's in high school. I guess you could call him a young man. He is six feet, maybe six-foot-one. Blond hair, blue eyes. His build is that of a sailor; he teaches in the summers. His eyes seem to be peering into the distance, imagining the possibilities. I've been told that he's very attractive.

He's been developing his thoughts and writes effusively on many topics, including the logical shortcomings of religion. He's come to be an atheist in a Catholic family. At school, he takes solace in the sciences, excelling in programming, chemistry,

He gains an interest in Spanish culture from his work helping immigrants gain citizenship. Shakira enters his life and takes over his music collection. From there, he learns the language and exults "¡Felicitaciones!" when a student of his joyously shares the news that she passed the citizenship test.

He meets a girl. She's not just any girl but ... what are words when there is first love?

He remembers each time their hands clasp (five) and each oh so gentle and soft hug (two). It is all so sweet, so gorgeously sweet, before it must end. Cruelly, she must return home across the country.

But our protagonist is a capable and resourceful man. Two days later, he sneaks away and jumps on a plane to reunite with her. The ensuing hug is by far the softest, the sweetest, the most pleasing and enduring of them all.

Ryan Davis died three years ago. All that remains of him is memories, thoughts, and impressions. I do not remember what day he died. I do not remember when he was born. But every year, I remember March 15, the last day that I saw him. I remember this day because of what he represented to me as the best man that I ever knew.

I met him as a freshman in 2006. We lived on the same hall of East Campus. Over the course of that semester, I became close friends with Ryan, mainly because we both liked to do stupid things.

Maybe you remember two fools sitting front and center in the 3.091 final dressed in suits? That was us who ate breakfast and popped champagne half-

Maybe you recall Spooky Skate that semester? We were the idiots impersonating the skate guards and kicking people off the ice for going too slowly, for not wearing enough layers, and for wearing skates, not shoes.

I tell you this story to speak to something greater than just Ryan. Every March 15, I am reminded that the reason he made such an impression is that he was so curious, so passionate, so human. Ryan had an idea for life. He recognized that it was so easy to waste our lives, our days, our hours, and our minutes. It is similarly trivial to take for granted the delicacies in life, the cool winter breeze flowing over the shore or the warmth exuding from a campfire's crackling dance. He wanted to be happy. He wanted to be where he loved, doing what he loved, and ultimately with the people he loved. How many of us can say that we have those simple aspirations that seem to mesh so well with our sense of a good

Ryan wanted every day to be a new day, to be novel and worth waking up for. These were thoughts expressed in action, in the way a simple conversation about if we really understood the chemistry behind the champagne led to proving it during the final, in the way a burning desire culminates in adventuring in a foreign land with just clothes and a backpack. How many of us can say that we are capable of such spontaneity, such an ability to be ent for life's call?

I can truly say that my time at MIT has been nothing but extraordinary. And through my numerous failures and my relatively few accomplishments, I have met many people with a potential for excellence and effecting lasting change. Similarly to Ryan, they are characterized by their curiosity and their passion. I like to believe that for almost everyone here, the reason for being admitted was that you had that flame burning brightly prior to MIT. We were all at some point characterized by our desire to do something very well. But how many of all of us will remain inquisitive and sustain a burning passion as our years progress? I fear that the flame will extinguish for some faster than others. And unfortunately, for many, it will probably be faster than you even imagine. Regardless, I sincerely hope that you can look into the mirror every day and still see a supple but intense mind returning your gaze. And if at any point you find you have lost what you came here to MIT with, I hope that you are are able to be cognizant of that and not afraid to explore.

I am lucky that I met Ryan, especially when I did, and I think it would be selfish of me to keep to myself the understanding that I gained from knowing him then, from remembering him now. I hope this story and these ideas resonate with someone else, with one of you.

Cinjon T. Resnick is a member of the Class of

# FUN FUN

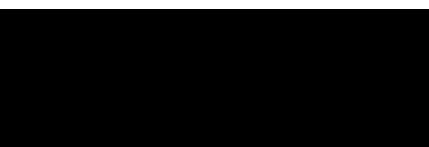
#### Steal My Comic by Michael Ciuffo



STEALMYCOMIC-COM

#### **Doonesbury** by Garry Trudeau







#### **Dilbert®** by Scott Adams







#### **Crossword Puzzle**

#### **ACROSS**

- 1 Showy parrots
- 7 Execrable
- 13 Orbital extremes
- 15 Light amber brew
- 16 Citizen's Bank Park denizen
- 18 Like windows
- 19 Forensics letters
- 20 Rugged ridge 21 Coal or opal ending
- 22 Floor support
- 24 CCLXIII quadrupled 25 God, to da Vinci
- 26 Transgressors
- 28 D-Day vessel
- 29 Nissan model
- 31 Nincompoop
- 33 Willingly, once
- 34 Partially carbonized
- moss 35 Affected by
- pathogens 37 Quick to learn
- 39 Comfy shoe
- 40 Blows out
- 42 \_\_ es Salaam
- 44 Harmony part, perhaps
- 46 Big name in copiers
- 47 In \_\_ (undisturbed)

- 48 Train tracks
- 50 Poppycock!
- 51 Leaning Tower local
- 52 "The Patty Duke Show" neighborhood
- 55 Of tongues
- 56 Reversion of
- property to the state 57 Mickey Mouse
- courses
- 58 Target with a throw

#### **DOWN**

- 1 Charted
- 2 Loss of language ability
- 3 Numismatists' holdings
- 4 Joyous, in poetry
- 5 Tuesday in Hollywood
- 6 Six in Siena
- 7 White House initials: 1881-85
- 8 Arm bone
- 9 Upgrade guns
- 10 Wide receivers?
- 11 Upper cruster 12 Double dealing
- 14 Spiritual Arizona

- town
- 15 Synchronized
- 17 Nabokov novel
- 22 "The Complete Book of
- Running" writer
- 23 Multiscreen
- cinema 26 Tres y cuatro
- 27 Pintail ducks
- 30 Reward for
- waiting 32 Computer music
- format 35 Sun rooms
- 36 Ladd or Tiegs
- 37 Put into gear?
- 38 Sound of gunfire 39 Statuary stone
- 41 Presley's middle name
- 43 Totals
- 45 Branch of
- science: suff.
- 47 Audible breaths
- 49 Predatory
- shorebird
- 51 Printer's measure
- 53 \_\_ Cruces, NM 54 Psychic's gift
- 25 26 29 31 33 35 40 43 44 46 48 50 52 53 54 55

#### **Applied Scheduling**

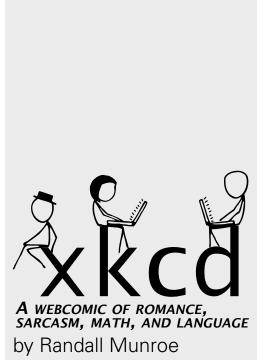


by Jerry Holkins and Mike Krahulik

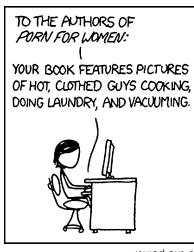


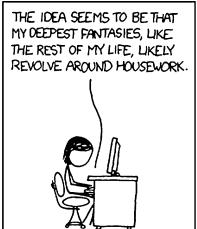






#### **Porn For Women**



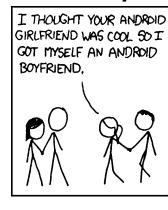






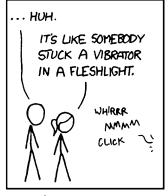
Yes, there are a lot of longing looks across the bridge of Galactica first, but that's beside the point!

#### **Android Boyfriend**









Which is, coincidentally, the most unsettling mantlepiece decoration in my house.

#### **Easy Sudoku**

Solution, page 14

			2		0		5	1
				1				4
				5	4	6		
	6	5		4		7		9
		5 2 4				4		
7		4		3		1	2	
		1	9	8				
9				2				
9	4		1		5			

#### **Hard Sudoku**

Solution, page 14

		4			3	6	8	
						2		
	9	6	8	1				7
6					7	8		
	1			4			6	
		5	6					3
4		3		7	6	5	9	
		7						
	5	1	2			4		

#### **BROUHAHA RHYTHM**

#### **Rocking out with Ryanhood**

#### Band and fans play together on plastic instruments

By Michael T. Lin CAMPUS LIFE EDITOR

A few weeks ago, I had the chance to hang out with one of my favorite bands. My friends can attest to how much of a fan I am of acoustic guitar duo Ryanhood, probably while rolling their eyes and sighing. As it happens, I'm not the only person in the Greater Boston-Cambridge metropolitan area who considers himself a devotee of the band, which recently had a show in the area. Caitlin Mason and Chris Chiampa in Malden, unable to make it to the concert in Boston on March 6, opened her apartment to Ryanhood the next day for some Beatles: Rock Band with band members Ryan Green and Cameron Hood. Luckily for me, a few other fans got to come along for the ride, myself included.

I'm fairly sure that if I randomly encountered a Hollywood celebrity on the street, I would almost certainly be rendered incapable of forming coherent sentences and would instead stand gaping on the sidewalk for so long that I'd have to join the Living Statues Trade Union. Again, I'm not the only one — Chris related the story of a friend with a similar disposition. Although Chris's friend was a fervent Monty Python fan, instead of walking up and talking to Michael Palin when she passed him on the street, she could only turn to a nearby bystander and say, "It's Michael Palin!", preceded by an expletive. Fortunately, she said it loud enough for Mr. Palin to hear, so she at least got a wave and a smile out of the exchange; not all of us are so lucky.

A friend of mine, an absolutely rabid Firefly fan (something else I'm a eye-rollsigh-worthy fan of) once barely missed Nathan Fillion walking out of a diner, which would be tragic enough on its own. Com-

I live in envy of people who can have a normal conversation with famous people without developing a stutter or sharing too much information.

pound that with the facts that she a) had that day narrowly decided against wearing her Jayne hat, a bright orange/yellow/ red knit toque that's impossible to miss and a badge for many Firefly fans, b) lives in Los Angeles but constantly has to cor-



MICHAEL T LIN-THE TECH

Cameron Hood (left) and Ryan Green relax between songs as the evening winds down in Caitlin Mason's apartment on March 7. Mason invited them over for gaming after missing their March 6 concert.

rect people who assume she sees celebrities day in and day out, and c) once walked past Firefly creator Joss Whedon at the San Diego Comic-Con in a similar manner, and it's positively heartbreaking. Hindsight is a cruel mistress. I therefore live in envy of people who can have a normal conversation with famous people without developing a stutter or sharing too much information, like our hosts Chris and Caitlin, who apparently not only spoke to Ryanhood (which is more than I can say for the first time I met them), but invited them to their

When I got to Chris and Caitlin's apartment, I was obscenely early, which is par for the course for me, a punctuality paranoiac. What wasn't par for the course was the fact that I managed to find the place without getting lost even once (which is why I'm a punctuality paranoiac and why I was so early to begin with). After Ryanhood's arrival, the videogaming commenced shortly. Aside from the expected technical difficulties with calibration, a common concern with rhythm-based games, things went fairly smoothly. Unsurprisingly, both Ryan and Cameron rocked lead vocals, and were understandably hesitant to play "Dear Prudence," which they covered on one of their early albums. What was surprising, aside from Cameron being at least as good at drums as he was on guitar, was how much the afternoon played like a normal gaming

Though Ryan and Cameron are both professional guitarists, instruments were exchanged as freely as with any other group of gamers I've played with. No red carpets, no giddy fawning, although I do recall that Ryan and Cameron had no trouble leaving at the end of the evening with a Tupperware container full of cookies. Just a solid afternoon of good fun with interesting people — and not just the rock stars, either. Our hosts and their friends were equally fascinating, including a scholar of literature and a development writer for, among other things, the Discovery Channel. When you're sitting across from someone who has met (and was allegedly checked out by) the host of Cash Cab, and

she's offering to mix you a drink, you know you've found a good way to spend your Sunday afternoon. Not only did I get to show off my Rock Band skills to two of my favorite musicians (proving that contrary to the common parental assertion, video games are only a partial waste of time), but I made some new friends with cool jobs, good taste in music, and every Rock Band game ever made. Methinks I'll be visiting again soon.

#### **COMMENTS?**

The Tech wants to know what kind of experiences you've had when meeting celebrities! Which celebrities were nice? Which ones weren't as you expected? Were they random encounters, or did you wait for hours in line for a ten-second conversation and an autograph? Send your stories to cl@tech.mit.edu, and the best will be printed in a future

#### **VARIOUS STATES OF UNDRESS**

#### Man on a mission

Spicing up vanilla

Ву М.

Those who know me can all agree on one thing: I am anything but boring. I'm feisty and loud, I'm the life of the party, and I'm always down for an adventure. I guess that's why my guy friends were surprised when I said my favorite position is the mis-

Apparently, the missionary is how boring people bone. I thank my friends for shedding some light, because now I can take the necessary measures to have sex the way fun people do. I mean, I can see how missionary would be referred to as the "vanilla of sex," but that doesn't make it boring. Vanilla is the most popular ice cream flavor for a reason! It's simple and satisfying by itself, but with the right toppings, you can take it to a whole 'nother level.

"I don't like it, because I'm thrusting and she's laying there like a dead fish," a dude tells me, and the others agree. When I asked which position they preferred, they responded with "girl-on-top." So, let me see... Guys don't want the girl to lay like a dead fish, yet it's cool when they do it. Lazy

Let me just say, I do not adhere to nor support the Dead Fish School of Boning.

Last I heard, sex is a mutual act. Laying the girls, it's all about theta: the angle your her, pause the humping, stare into her eye there while the guy pounds away reduces me to a life-sized Fleshlight, and I see myself as more than a inconspicuous masturbation device. While it is a bit challenging to move when trapped between a mattress and a guy, there's always something for the girl to do to spruce it up. Girls, squeeze your

#### I can see how missionary would be referred to as the "vanilla of sex," but that doesn't make it boring.

PC muscles, grab his ass and pull him into you, tug on his hair, grind your hips against his... there are infinite possibilities! Go off,

In addition to all the amazing add-ons I've got you dreaming up, missionary can be tweaked to add a little oomph; French vanilla instead of regular, if you will. (I'm milking this analogy for all it's worth.) For

legs make with the rest of your body makes a huge difference. Throw your legs over his shoulders at 90°, or bend them back further towards your head at around 120°, if you really want to take it to a new level.

I also have some advice to dispense to the guys, if I may. The number one complaint about my beloved missionary is that some guys tend to go crazier with the jackhammering than the construction workers at the Media Lab Extension. Listen, some of us like it rough, but a lot of you supply more power than we can resist. Take advantage of the fact that you're all up on her face and gauge her reaction; adjust as necessary. In addition to controlling and varying the pace, you might want to examine the technique. "In and out" is the basic mechanics of missionary, but let's try to mix it up a bit,

Missionary is also a great opportunity to get cheesy, and some people appreciate romance. Being skin-on-skin and making eve contact makes it feel more like lovemaking than straight-up sex. It is quite easy to kiss during missionary, which is not only a good way to get closer, but it also makes for a nice break if you've overexerted yourself. Fellas, if you want to tell her you love and do it. Just don't have that be the first time you tell her — you could really creep her out, and being in a compromising position, it's best to avoid potentially embarrassing situations.

If you feel like doing some talking of the naughty variety, missionary works wonders. Most of us live in dorms, which have paper-thin walls. If you're going to talk about how you want to be [bleeped] in the [bleep] until you [bleep], it's best that nobody else hears it, unless you want your hallmates to reenact it for you once the boy is gone. (True story.) Lean in and whisper something dirty in your partner's ear. And don't be shy about it; nobody's listening,

Lastly, let's not discount the simplicity behind the missionary position, a major selling point because acrobatics are hard and sex ain't a circus. Even if you lack experience, it is hard to completely mess up this position. In any event, if you're lucky enough to be the girl, you can always just lay there like a dead fish.

M. is a junior in Course 10, and her favorite thing about missionary is watching the funny faces people make during sex. She can be contacted at undress@tech.mit.edu.

Tuesday, March 16, 2010

The Tech 9



**Supa Dupa and the Shallow Romantics performed** at the Student Center's Mezzanine Lounge on March 12, hosted by the MIT Live Music Connection.

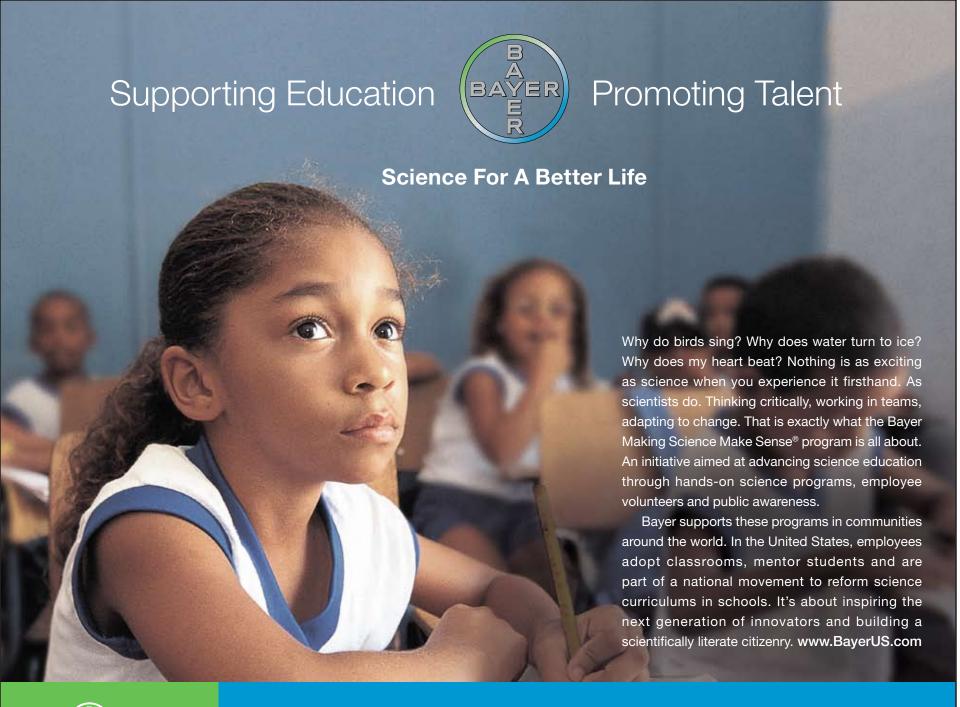


Qiaodan Jin Stone '13 reads the tab to the table she is waiting on at Deli Haus. The wait-staff at Deli Haus are usually dressed in a punk style.



MICHAEL YU—THE TECH

Nathaniel S. Fox '12 gives his stand-up comedy routine as part of a competition arranged by the MIT Stand-Up Comedy Club on Wednesday evening in Lobdell. The top eight comedians voted by the audience will represent MIT as a team to compete against other colleges in the Rooftop College Comedy Competition. The top four teams will then head to the national finals at the Aspen Rooftop Comedy Festival on June 10–13.



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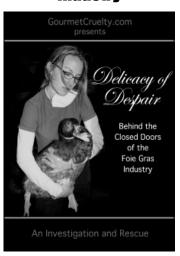
- convenient Cambridge location

The MIT Vegan & Vegetarian Society Presents:

Free Film Screening and Discussion with the Filmmaker:

#### **Delicacy of Despair:**

Behind the Closed Doors of the Foie Gras Industry



Free screening and discussion with the filmmaker (an MIT grad student) of this undercover documentary about an investigation and rescue of animals from foie gras factory farms!

Tuesday, March 16. 7pm. 4-237. The event is free. All are welcome. Snacks provided!



# nsored by raduate tudent ouncil deuts vertouse.

# FEII Communty Lecture Series

#### As seen in the NY Times, as heard on NPR

The Interfaith Amigos



Sheikh Jamal Rahma

Rabbi Ted Falcon

Pastor Don Mackenzie



Next Steps and Collaboration

Thursday, March 18, 2010, 7:30 pm

Main Dining Room, Bldg. W11 — Religious Activities Center (corner Amherst St. and Mass. Ave.)

Questions: ora@mit.edu Website: mit.edu/dsl/addir/

Dessert will be served.

Addir is a word in Ancient Sumerian which means "bridge". In the Addir Fellows Program we aspire to build bridges of dialogue and understanding. The Addir Fellows MIT Interfaith Dialogue Program is sponsored by Office of Dean for Student Life and MIT Hillel in cooperation with the Board of Chaplains.

**MIT Interfaith Dialogue** 

#### **Current MacVicar Faculty Fellows**

2010	Anette "Peko" Hosoi	Mechanical Engineering
	Krishna Rajagopal	Physics
	Rajeev J. Ram	Electrical Engineering and Computer Science
	Norvin W. Richards	Linguistics

2009	Vladimir Bulović	Electrical Engineering and Computer Science
	Diana Henderson	Literature
	Daniel Jackson	Electrical Engineering and Computer Science
	David Jones	Program in Science, Technology, and Society

2008	Tania A. Baker	Biology
	W. Craig Carter	Materials Science and Engineering
	Sanjay Sarma	Mechanical Engineering
	Stephen Tapscott	Literature
	Barton Zwiebach	Physics

2007	Yoel Fink	Materials Science and Engineering
	Jonathan Gruber	Economics
	Charles E. Leiserson	Electrical Engineering and Computer Science
	James B. Orlin	Sloan School of Management
	David R. Wallace	Mechanical Engineering

2006	Samuel A. Bowring	Earth, Atmospheric and Planetary Sciences
	Dennis M. Freeman	Electrical Engineering and Computer Science
	Leslie K. Norford	Architecture

2005	Haynes R. Miller	Mathematics
	Ruth Perry	Literature
	David Pesetsky	Linguistics and Philosophy

2004	David L. Darmofal	Aeronautics and Astronautics
	Jean E. Jackson	Anthropology
	David Jerison	Mathematics
	Steven B. Leeb	Electrical Engineering and Computer Science
	Anne E. C. McCants	History

2003	Peter Child	Music and Theater Arts
	Isabelle de Courtivron	Foreign Languages and Literatures
	Jesús A. del Alamo	Electrical Engineering and Computer Science
	Barbara Imperiali	Chemistry
	Ian A. Waitz	Aeronautics and Astronautics

2002	Alan H. Guth	Physics
	Steven R. Hall	Aeronautics and Astronautics
	Kip V. Hodges	Visiting Professor in Earth, Atmospheric and Planetary Sciences now at Arizona State University
	Nancy G. Kanwisher	Brain and Cognitive Sciences
	David Thorburn	Literature

2001	Mary C. Boyce	Mechanical Engineering		
	Anne M. Mayes	On Leave from Materials Science and Engineering		
	David A. Mindell	Program in Science, Technology, and Society		
	Heidi M. Nepf	Civil Engineering		
	Janet Sonenberg Music and Theater Arts			
	J. Kim Vandiver	Mechanical and Ocean Engineering		

#### **Royal Bengal**

Boston's only authentic Bengali Cuisine restaurant

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Free delivery for orders over \$10.
Take-out, platters, and catering available.
http://www.royalbengalrestaurant.com/

#### **Eating Disorder Treatment**

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therapeutic setting. Evening, day, and residential treatment as well as weekly support groups in West Medford and West Somerville. Call Linda at 781 396-1116 or visit www.laurelhillinn.com.

Tuesday, March 16, 2010 THE TECH 11

#### Margaret MacVicar's legacy keeps on rewarding

#### This year's four MacVicar fellows honored for outstanding teaching

MacVicar Fellows, from Page 1

out of 180 on the final in the class, by far the highest grade in the class.

Rajagopal and Ram see MIT's commitment to undergraduate education as a strong asset to students and faculty alike.

"People teach better here and it's valued here and it's valued in real ways," said Rajagopal. Being surrounded by other faculty who are not only pushing the frontiers of science in their research, but are also committed to excellence in education is seen as a strong motivating factor by Rajagopal.

Ram similarly praised MIT's commitment to undergraduate education. "I knew I wanted to teach, that was the highest priority," said Ram, who initially was looking at faculty positions at smaller liberal arts schools because he was looking for a program with an emphasis on education. Ram had gone to CalTech for his undergraduate degree and received his PhD from UC Santa Barbara.

At MIT, Ram found that "the [EECS] department was very teaching-focused," something not found at all comparable research

institutions. Ram sees the dedication to teaching as one of the great strengths of MIT for both the faculty and the student body.

A recurring theme was the ties between research and teaching. "It's not right to separate the teaching and the research," said Rajagopal. "For me, my teaching and my research come from the same place." Rajagopal's research is in the field of theoretical nuclear and particle physics. Other fellows echoed the same idea, presenting the idea that research and teaching strengthen

All four fellows seek to instill a sense of understanding in their students, something that often challenges their own understanding of

Hosoi said "If you can't articulate your understanding, then you don't really understand it." Recognizing the best way to explain complex topics is commonly recognized as one of the greatest hurdles in effective teaching.

Beyond simple understanding, the fellows commonly want to instill interest and passion in their students. Richards says one of the most rewarding parts of teaching undergraduates is seeing that "your lecture has made them think about the world in a different way."

'Undergraduate education is not professional training," said Rajagopal, who believes that an undergraduate education should be able to set a strong foundation for later work, while allowing exploration of passions. An education is physics should be given to those who are passionate about the subject, not just who wish to become

The fellows have employed a variety of teaching styles in their classrooms to best foster understanding. "I try to get them to argue with each other, test hypotheses in class," said Professor Richards. Richard says it is common for students to come into his introductory linguistics class with little background but many preconceptions about how language works, giving opportunities for exploration of how much people think they know about language actually applies.

Professor Hosoi tries to experiment with her methods to find the best way to teach her classes, which include Mechanics and Materials I, 2.001, and Thermal Fluids Engineering II, 2.006. "Don't be afraid to try new things, especially at MIT," where Hosoi says students will tell you what is and what isn't working. She sees videos as a nearly essential teaching tool — "I don't know how people taught without YouTube."

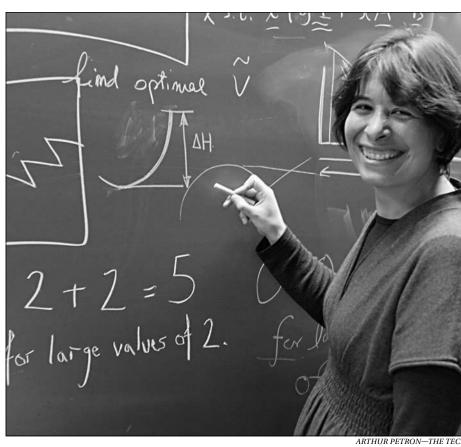
Ram starts lecturing Electromagnetic Energy: From Motors to Lasers (6.007) with a discussion of the iPhone. In 6.007, Ram wants his students to "make the connection between the Course VIII classes and the devices [they] own." He starts he first class with discussion of what the iPhone can do, from touch screen to accelerometer, and what principles enable these abilities. "MIT undergraduates should graduate knowing how all the cool technology works," Ram said.

Rajagopal works off a simple blackboard and lecture format. Rajagopal has taught exclusively undergraduate classes since starting at MIT in 1997. "When you're teaching quantum mechanics and statistical mechanics, you're opening students eyes to a whole new language," he said.

One of the main challenges in teaching quantum mechanics is helping students gain an intuition for the topic, something that comes much more easily for classical mechanics. Rajagopal wants his students to gain a deep understanding of what the material is and how it works. "Any one of these subjects has implications all over the place, and I try and make those connections clear"

Though they have only recently received the grant, some of the fellows have already started considering how to allocate their funds. Professor Richards, whose research includes investigation of extinct and dying languages, hopes to use some of the grant to fund paid positions for undergraduates to perform field work in chronicling such languages

Professor Ram hopes to use money from the MacVicar grant to allow for more lab opportunities. Ram's goals include "a facility that had the capacity of a clean room that was as accessible as a hobby shop," allowing undergraduates access to a lab in which they could do work such as building transistors and LCDs. Ram hopes to develop new lab components for classes, starting with a freshman seminar slated for next fall.



Anette E. "Peko" Hosoi, who is currently on sabbatical at Harvard, shows some of the things she's been working on while away from MIT. Hosoi was recently chosen as a MacVicar fellow.



Professor and associate head of the physics department Krishna Rajagopal loves teaching, but also has an appreciation for photography.



Professor of Electrical Engineering Rajeev J. Ram teaches about application-based electrical engineering, such as optical traps and nanoactuators

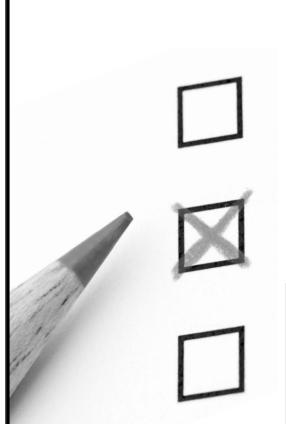


ARTHUR PETRON—THE TECH Norvin W. Richards, professor of linguistics and philosophy, has deep insights into both linguistics and teaching

12 THE TECH TUESDAY, MARCH 16, 2010

#### Coop Student Board of Directors Election Update

The following student Coop members have been nominated by the Stockholders as candidates for the Board of Directors for the 2010-2011 academic year.



617-864-2061

MIT Undergraduate Student: Christina Johnson, 2011

MIT Graduate Students:

Tanguy Chau, PhD/MBA, 2011 Lorenna Lee-Houghton, PhD, 2011 Jim Morrison, 2011 Paul Romano, PhD, 2011

Harvard Undergraduate Students: Lauren Dai, 2013

Melissa Oppenheim, 2012 Danni Xie, 2012

Harvard Graduate Students:

Aaron Chadbourne, HBS/HLS, 2011 Justin Kliger, HLS, 2011 Jessica Rabl, HBS, 2011

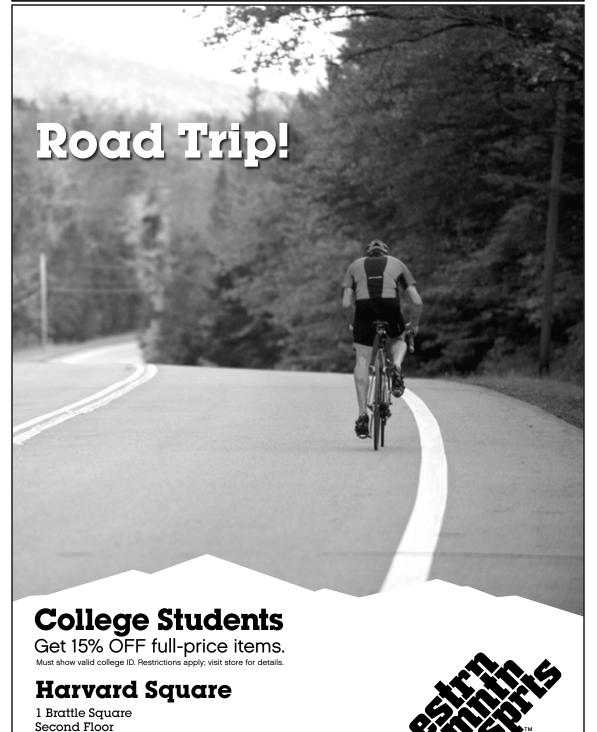
Any student Coop member may petition to be a candidate on the election ballot. A Petition application is available online at www.thecoop.com.

The Petition period is March 15 to March 29, 2010. For complete Petition rules consult the information posted in the election section on the Coop website at:

www.thecoop.com.



HTTP://www.thecoop.com



#### 'Project Full Breeze' wants a wind turbine

67-foot turbine planned for field

By Jiyeon Baek

An MIT group wants to erect a wind turbine on one of the west

campus sports fields.

The Cambridge Planning Board will conduct a public hearing about the wind turbine tonight at 7 p.m. at the Cambridge Community Development offices at 344 Broadway. If the turbine is approved, it may be installed within a couple of months, according to Kelley Brown, a senior planner in the Department of Fa-

One proposed location is the southwest corner of the Steinbrenner Stadium, on the edge of the small grass practice field. The other location is the westernmost part of Briggs Field, on the grass between the two soccer fields. The final location will be chosen based on research data on wind and the impact on pedestrians at the location.

The wind turbine will be a Skystream 3.7 manufactured by Southwest Windpower Inc., with three 12-foot turbine blades about 68 feet above the ground. The wind turbine can generate 2.4 kilowatts.

The energy generated will be delivered to the nearest underground transformer connection and will be connected to the campus power grid according to Kathleen M. Araujo G, who is organizing the project, in cooperation with the Department of Facilities.

Brown said the project is being funded by an outside donor.

The wind turbine has already met certain local standards such as Cambridge Noise Ordinance; it will produce 45 dB sound pressure level at 40 feet, softer than a quiet restau-

Araujo said that, if approved, this will be the first wind turbine installed at MIT.

The wind turbine is a side project of MIT's Wind Energy Group, a larger student, faculty and outside corporate effort to develop windderived energy systems, of which Araujo is president.

Called "Project Full Breeze," the turbine project consists of graduate students led by Araujo and Katherine Dykes G, vice president of the MIT Energy Club and founder of the Wind Energy Group.

According to the Project Full Breeze website, http://sites.google. com/site/windenergymit/, group first began by installing anemometers and other wind measurement equipment donated by NRG Systems, a company which produces wind assessment tools, on a light pole in the Steinbrenner stadium. Then group then installed the meteorological tower, also donated by NRG, on the fields near the Westgate Parking lot.

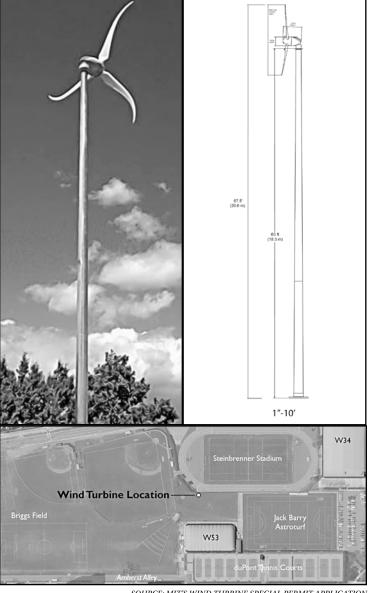
Araujo said that the meteorological tower is currently fenced off and will be removed once MIT athletes begin using the fields.

Some students have shown concern about the placement of the wind turbine.

Alexander M. Mannion '11 said, "I could see how it would affect people playing pick-up. These fields get really crowded on weekends...Having a large metal structure next to a playing field would not be a good idea. Perhaps they should consider putting a barrier around it."

Araujo said that much thought has been put into the selection of the wind turbine locations and that the wind turbine is effectively no different from the light poles on the

Project Full Breeze has been working on installing the wind turbine for about a year, she said. "It's wonderful to see that MIT is proving to be a living laboratory...We're thrilled to see the progress made thus far, particularly the ways in which the project continues to ad-



SOURCE: MIT'S WIND TURBINE SPECIAL PERMIT APPLICATION

Left: illustration of the model wind turbine to be installed. Right: schematic diagram of the wind turbine. Bottom: turbine's planned location.

**THE TECH 13** Tuesday, March 16, 2010

#### Speaker announced Mar. 16, not in Dec. as in some years

Ray Stata, from Page 1

ilton Chan, president of the Graduate Student Council and member of the Commencement Committee.

W. Eric L. Grimson PhD '80, chair of the Commencement Committee, said that Stata was a "great example of an MIT success," and that he "used what he learned [at MIT] to make a difference in the world".

#### Stata is a "great example of an MIT success"

– Eric L. Grimson CHAIR OF COMMENCEMENT COMM.

#### **Student reactions**

Arjun Naskar '09, who is graduating this year, did his MIT admissions interview with Stata. "He's a great guy," Naskar said, and "he'll definitely give good advice."

Naskar said he was unsure if "the class will be stoked compared to the speakers that Harvard and most other schools get."

Victoria E. Lee '10 initially said "Cool!", but admitted she had suggested Bill Nye "The Science Guy" and Tina Fey, and so was "kinda" disappointed.

Lily L. Keung '10 asked, "aren't commencement speakers usually

#### Grimson discusses selection

Grimson, who has chaired the committee since 1998, cited Stata's role as co-chair of the Massachusetts Science, Technology, Engineering, and Mathematics Collaborative, aimed at increasing interest in STEM fields in Massachusetts schools; Stata's funding of MIT startups such as Stata Venture Partners; and Stata's "giving back" to MIT as examples of his success and his maintained contact with the MIT community.

According Grimson, being an alumnus of MIT is "plus" when being chosen as commencement speaker, since alumni know the MIT culture and can talk about how MIT got them where they are now.

Grimson said that other factors considered when selecting a speaker are the resonance a speaker's message would have with MIT, the timeliness of the speaker's message, and the presentation abilities of the speaker.

#### Stata reflects

MIT President Susan J. Hockfield contacted Stata to ask him to be this year's speaker. According to Stata, Hockfield felt that Stata, as an MIT graduate who knew MIT well and had benefitted from an MIT education, could share thoughts and experiences that would be of interest to graduates.

At first, "I was a little hesitant," Stata said, being unsure of the interest and value of his message. But on reflection, he said, he accepted because "there were so many exciting things to say about the enormous impact MIT has had on society, as well as the lives and and careers of graduates," including his own.

Stata added that his ideas for the address were still being formulated, and declined to go into detail about

#### Who is on the committee?

The Commencement Committee is comprised of Executive Officer of Commencement Gayle M. Gallagher, Grimson, faculty members, and student representatives. This year's student representatives were Chan, Class of 2010 President Jason A. Scott '10, and Undergraduate Association President Michael A. Bennie '10.

Chan said that the committee initially received a list of over 150 suggested names from students, which the Committee shortened to 10-15 speakers. This list was forwarded as an advisory list to President Hockfield, who ultimately made the final selection of the speaker. It is not a requirement that the chosen speaker be on the short list, and those on the committee would not say if Stata was on it.

According to Scott, this short list was submitted last May, and the members of the Committee were informed of Stata's selection at a meeting last week.

Both Chan and Scott said that

#### **Barack Obama** was a popular suggestion, as were **Bill Nye the Science** guy and Oprah

the members of the committee agreed to keep the short list confidential, and would not comment on who else was on it. In the initial surveying of students, Chan and Scott said that President Barack Obama was a popular suggestion, and Scott added that some suggestions included Oprah Winfrey, Michelle Obama, and Bill Nye. (According to Nye's publicity representatives, he has never been asked to speak at an MIT commencement.)

Grimson said that entertainers are not chosen unless the message resonates with MIT. He suggested that an entertainer like Bono could be considered because of his involvement with relief efforts.

Unlike many universities, MIT does not pay its commencement speakers, and only pays for expenses and a gift to the speakers. Grimson declined to comment on the details or size of the gift.

#### Past commencement speakers Date announced Commencement speaker and affiliation

Year	by The Tech	Commencement speaker and affiliation			
2010	Mar. 16	Raymond S. Stata, founder of Analog Devices			
2009	Feb. 10	Deval Patrick, Massachusetts Governor			
2008	Dec. 7	Muhammad Yunus, 2006 Nobel Peace Prize winner			
2007	Mar. 13	Charles M. Vest, professor of Mechanial Engineering (at the time) and former president of MIT			
2006	Dec. 13	Ben S. Bernanke, chairman of Federal Reserve Board			
2005	Apr. 12	Irwin Jacobs, co-founder/chairman/CEO of Qualcomm			
2004	Mar. 9	Elias Zerhouni, Director of NIH			
2003	Apr. 1	George Mitchell, former US Senator			
2002	Feb. 26	James Wolfensohn, President of the World Bank			
2001	Mar. 23	Daniel Goldin, NASA Administrator			
2000	Mar. 14	Carly Fiorina, President & CEO, Hewlett-Packard			
1999	Apr. 2	Tom & Ray Magliozzi, MIT alums and hosts of NPR's "Car Talk"			
1998	Feb. 24	William Jefferson Clinton, US President, and David Ho, AIDS			
1997	Jan. 29	Kofi Annan, United Nations Secretary-General			
1996	Mar. 1	Albert Gore, Vice President of the United States			
1995	Apr. 21	Hanna H. Gray, President Emeritus of the University of Chicago			
1994	Feb. 15	Karim Aga Khan IV, spiritual leader of the Shia Ismaili Muslims			
1993	Jan. 13	Carlos Salinas de Gortari, President of the United Mexican States			
1992	Mar. 31	Leslie Aspin, Congressman from Wisconsin; chairman of the House Armed Services Committee			
1991	Mar. 13	Walter E. Massey, director of the National Science Foundation			
1990	Dec. 5	Virgilio Barco, President of the Republic of Colombia			
1989	Feb. 14	Paul E. Tsongas, chairman of the Board of Regents of Higher Education of Massachusetts; former US Senator from Massachusetts			
1988	Feb. 12	A. Bartlett Giamatti, president of the National League of Professional Baseball Clubs; former president of Yale University			
1987	Feb. 3	Kenneth H. Olsen, founder and president of Digital Equipment Corp.			
1986	Feb. 4	William R. Hewlett, vice chairman of the board of directors, Hewlett-Packard.			
1985	Jan. 23	Lee A. Iacocca, chairman of the board and CEO, Chrysler Corp.			
1984	Feb. 7	Shirley Chisholm, former Congresswoman of Brooklyn, NY			
1983	Feb. 8	Helmut Schmidt, former Chancellor of the Federal Republic of Germany			
1982	Mar. 5	Katharine Graham, chairman of the board and CEO, Washington Post Co.			
1981	Mar. 20	Paul E. Gray, MIT president elected that academic year			

COMPILED BY MICHAEL MCGRAW-HERDEG

#### Innovative Drug-Free Treatment for Depressed Youth Seeking participants for a study

of neurofeedback, a cutting-edge treatment that can be used in combination with other interventions.



interest in activities; changes in sleep patterns; feeling tired;

Neurofeedback involves training the brain's mood centers guided

by brain imaging. It is a safe and enjoyable procedure that has been proven effective with various disorders

Participants will receive 20 half-hour sessions spanning 10 weeks. They will complete questionnaires about their symptoms before

There is no charge for any of the treatments.

Neurofeedback sessions will be held at the NeuroDevelopment Center in Providence, RI.

Sessions are also held in Cambridge, MA

If you know of eligible participants, please have them, or their parents, go to youthmood.com for more information, or call:

Fred Rothbaum, Ph.D. (617) 627-2072

Laurence Hirshberg, Ph.D. (401) 351-7779



veryday. **ASK,** beyond. harmony. differenc connect. journey. embody. PURSUE, envisi tioning. presense, imagine, realization, orga press. discover. LIVE possibilities. unfold.

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www.mit.sojourncollegiate.com

Monday's @ 8pm

**Religious Life Center** small dining room

Our showings continue at full power! Join us this week for:





7:10PM Crazy Shrine Maidens 1-4 To carve a statue out of a sacred tree for a school project is probably not one of the safest things you can do as you can never be sure when you might bring upon yourself the divine wrath of a goddess!

9:20<sup>PM</sup> BECK - Mongolian Chop Squad 1-4

Tanaka Yukio is a 14 year old who feels disconnected from life in general. Through the act of saving a mismatched dog, he meets the guitarist Minami Ryuusuke, and becomes involved in Ryuusuke's new band BECK. Soon after his life starts to change as the band struggles towards fame.





11:10<sup>PM</sup> Astro Fighter Sunred 5-8 Will Astro Fighter Sunred finally manage to defeat the Evi Florsheim Army or will the Evil Florsheim Army fail to show up to the battlefield, again?! Come watch with us this Japanese parody of the hero genre!

March 19th, room 6-120 Pizza sales at 8, serving time at 9

Artsy-fartsy?

arts@tech.mit.edu

14 THE TECH TUESDAY, MARCH 16, 2010

#### MIT Students Accepted, Per 100 Applicants



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 (15.0%) (15.5%) (15.8%) (16.4%) (15.9%) (14.3%) (13.3%) (12.5%) (11.9%) (10.7%) (9.7%)

 $CONNOR\ KIRSCHBAUM-THE\ TECH$ 

On March 14 ( $\pi$  day), Admissions released decisions for the Class of 2014. Overall this year, 9.7 percent of the 16,632 applicants were accepted. See story, p.1



**Awards Convocation 2010** 

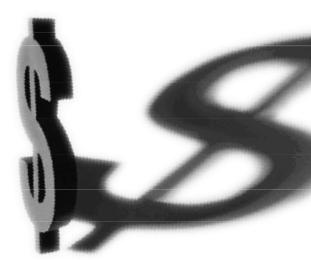
#### Undergraduate Students working in Energy...



There is still time to provide key feedback to the MIT Energy Education Task Force on ways to improve curriculum and career development that's focused on energy.

Complete this short survey by March 19<sup>th</sup> to be eligible for one of four \$50 Amazon.com gift certificates!

http://www.surveymonkey.com/s/8VR92VK



Many thanks, Sara Barnowski Undergraduate Student Representative MIT Energy Education Task Force

Do it in the dark

photo@tech.mit.edu

Lions, tigers, and penguins, oh my.



technology@tt.mit.edu

W20-483, 617-253-1541

#### LEGAL COUNSEL

MIT students, family, employers and start-ups seeking U.S. legal counsel, campus or office consultation. Call:
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321-544-0012

#### SUMMER RENTAL CAPE COD:

Brewster, cute cottage on freshwater pond. Sleeps 6. Separate studio, piano, screen-porch, fireplace, private beach. \$1,200/week. Andy 617 876 6257.

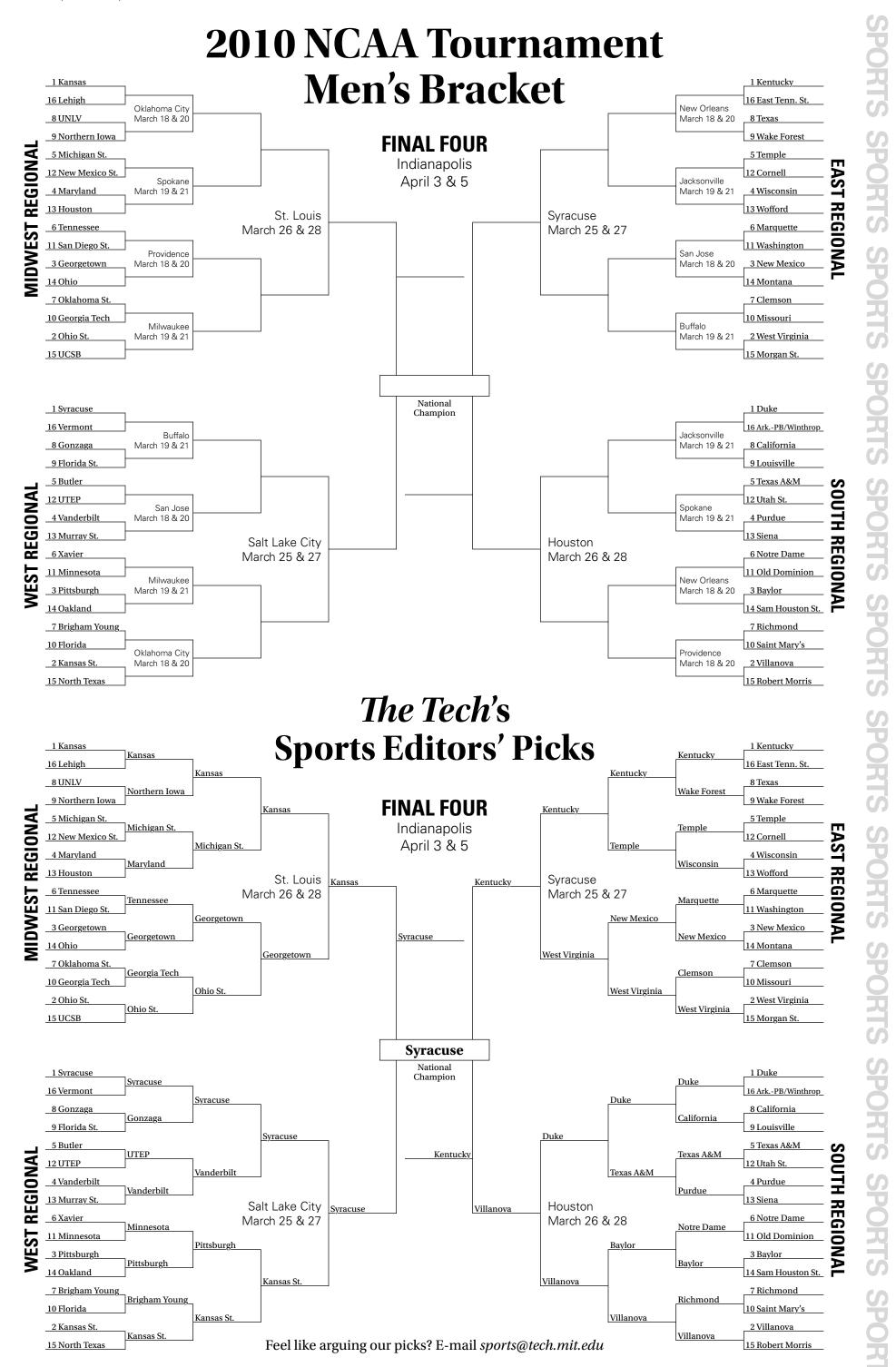
#### Solution to Sudoku (Easy)

4	8	6	2	7	9	3	5	1
5	7	3	6	1	8	2	9	4
2	1	9	3	5	4	6	8	7
1	6	5	8	4	2	7	3	9
8 7	3	2	7	9	1	4	6	5
7	9	4	5	3	6	1	2	8
6	2	1	9	8	7	5	4	3
9	5	7	4	2	3	8	1	6
3	4	8	1	6	5	9	7	2

#### Solution to Crossword

#### Solution to Sudoku (Hard)

Tuesday, March 16, 2010
The Tech 15



# SPORTS SPORTS

# SPORTS

RTS SPORTS SPORTS SPOI

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# Track and field competes at NCAA D-III championships

#### Women finish 10th, men finish 17th

By Greg McKeever

DAPER STAFF

The MIT track and field teams traveled to DePauw University in

Indiana over the weekend for the NCAA Division III Indoor Champion-

ship.

The women's team came in tenth out of 61 scoring teams, the best finish in program history. The Engineers secured four All-America nods, as three individuals and one relay made it to the awards podium. Portia M. Jones '12 and Hazel L. Briner '11 each had an individual All-America performance in addition to their part on the 4x400 relay team and Karin E. Fisher '11 also finished among the

top eight in the pole vault.

Jones had a very strong showing in the 400 meters, an event in which she owned the fastest time in the country. She won her heat of the prelims with a time of 56.82 seconds, a personal best. She followed that up with a fourth-place finish, running 56.72 in the finals. Teammate Jamie L. Simmons '12 came up short of the finals of that event.

In the 55-meter hurdles, Jones placed fifth in her heat (8.33) but missed out on the finals by just one-hundredth of a second. Jones and Simmons were then joined by

Martha M. Gross '12 and Briner on the 4x400m relay that finished in fourth-place with a time of 3:54.84 in the final event of the meet on Saturday afternoon.

Briner was also entered in the pentathlon and pole vault, two events occurring simultaneously on Saturday morning. The junior started off with, the 55-meter hurdles, finishing in fifth with a personal best of 8.73 seconds. She followed that up with an 11th-place showing in the high jump (5-0.50 feet) A fifth-place result in the shot put (35-1.00) and 11th in the long jump left Briner in fifth overall headed into the final event, the 800-meter run. Briner won the 800 to move up to third overall while setting a new MIT record for total points (3391).

In the pole vault, Briner was able to secure a 10th-place result while Fisher matched her personalbest by clearing 12-4.00 feet to earn MIT's fourth All-America honor with a sixth-place finish.

Brooke C. Johnson '13 was unable to make the finals in the mile run, completing her preliminary race in 5:03.89. The distance medley relay team of Johnson, Gross, Simmons and Alina E. Gatowski '11 also finished just off of the All-America stand, taking ninth place with a time of 12:07.20.

The MIT men's track and field team entered the NCAA Division III

Indoor Championship with hopes of improving on their 32nd place showing from a year ago. Bolstered by tremendous performances by Stephen A. Morton '10 and Gregory D. Tao '10, the Engineers finished in 17th place out of 65 scoring teams.

Tao started off Friday morning in the pole vault. After clearing the first two heights, Tao made it over the bar at 16-1.75 feet on his third attempt. That height proved to be too difficult for all but six vaulters and put Tao onto the All-America stand with a sixth-place finish, improving on his eighth-place showing in 2009.

Morton entered the meet with high expectations, coming in with the top overall mark in the triple jump and was seeded second in the long jump. After a disappointing foul out in the long jump, Morton finished first in his preliminary flight of the triple jump. The senior followed that up by shattering his own Institute record in the finals, jumping 49-3.00 feet, just a halfinch behind the national champion, Chrys Jones of Centre College.

MIT's other entry in the meet was Kyle J. Hannon '11 in the mile. Hannon ran poorly in the prelims, finishing in 4:21.26, nearly ten seconds slower than his season best.



ANDREA ROBLES—THE TECH

Aviva Rose Siegel '13 and Aubrey L. Samost '10 skate to "Boogie Woogie Bugle Boy" during the MIT Figure Skating Club's annual exhibition in Johnson on Mar. 12. The exhibition featured beginner skaters performing their first single skate, along with professional skaters such as freshman Curran Oi who placed 6th in the 2009 US Figure Skating Championships.

#### **SCOREBOARD**

Saturday, 3/13	
vs. Salve Regina University	L 11-4
Women's Tennis	
Saturday, 3/13	
at Bates College	L 7-2
Women's Track & Field	
Saturday, 3/13	
NCAA Championship	10th of 65
Men's Track & Field	
Saturday, 3/13	
NCAA Championship	17th of 61
Men's Volleyball	
Friday, 3/12	
at Daniel Webster College	W 3-0



DAVID M. TEMPLETON—THE TECH

**Back Ekaterina R. Kononov '12 prepares to pass** during the women's rugby team's scrimmage in the cold, windy rain on Saturday evening on Robert's Field. The club team beat Boston College 12-3.

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Tuesday, March 16 Softball vs. Simmons College

Men's Lacrosse vs. Husson University

Wednesday, March 17

**UPCOMING HOME EVENTS** 

Baseball vs. Wentworth College
Thursday, March 18

Men's Volleyball vs. Johnson and Wales

4 p.m., Briggs Field 4 p.m., Jack Barry Field

3:30 p.m., Briggs Field

7 p.m., Rockwell Cage

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